

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Schultz et al.)	Examiner:
)	To Be Assigned
Serial No.	: Continuation of 10/427,145)	
)	Art Unit:
Cnfrm. No.	: To Be Assigned)	To Be Assigned
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Filed	: Herewith)	
)	
For	: INTEGRATED MONOLITHIC)	
	MICROFABRICATED DISPENSING NOZZLE)	
	AND LIQUID CHROMATOGRAPHY-)	
	ELECTROSPRAY SYSTEM AND METHOD)	
)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Mail Stop: Patent Application

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.98(d), the references identified on the attached PTO-1449 form are not provided, because these references either were previously cited by or submitted to the PTO in parent U.S. Patent Application Serial No. 10/427,145, filed April 30, 2003, of which this application claims priority under 35 USC § 120.

Respectfully submitted,

Date: March 30, 2004



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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 200701/1230	SERIAL NO. Continuation of 10/427,145
	APPLICANT Schultz et al.	
	FILING DATE Herewith	GROUP ART UNIT To Be Assigned

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	1	4,489,259	12/18/1984	White et al.			
	2	4,480,259	10/30/1984	Kruger et al.			
	3	4,490,728	12/25/1984	Vaught et al.			
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	5	5,501,883	03/26/1996	Ishikawa et al.			
	6	5,563,639	10/08/1996	Cameron et al.			
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	10	EP 588,952 B1		Europe			

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		11	Knox, "Theoretical Aspects of LC with Packed and Open Small-Bore Columns," <u>Journal of Chromatographic Science</u> 18:453-461 (1980)
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	26	Harrison et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> 261:895-897 (1993)
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	28	Kutter et al., "Integrated Microchip Device with Electrokinetically Controlled Solvent Mixing for Isocratic and Gradient Elution in Micellar Electrokinetic Chromatography," <u>Anal. Chem.</u> 69:5165-5171 (1997)
	29	He et al., "Fabrication of Nanocolumns for Liquid Chromatography," <u>Anal. Chem.</u> 70:3790-3797 (1998)
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	32	5,541,408	07/30/1996	Sittler			
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	56	Wang et al., "Polymer-Based Electrospray Chips for Mass Spectrometry," Twelfth IEEE International Conference on Micro Electro Mechanical Systems, Orlando, Florida, pp. 523-528 (1999)
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	64	5,750,988	05/12/1998	Apffel et al.			
	65	6,032,876	03/07/2000	Bertsch et al.			
	66	6,066,848	05/23/2000	Kassel et al.			
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		71	Vanhoutte et al., "Development of a Nanoscale Liquid Chromatography/Electrospray Mass Spectrometry Methodology for the Detection and Identification of DNA Adducts," <u>Anal. Chem.</u> , 69:3161-3168 (1997)
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	93	4,983,038	01/08/1991	Ohki et al.			
	94	4,999,493	03/12/1991	Allen et al.			
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	137	5,401,376	03/28/1995	Foos et al.			
	138	5,401,963	03/28/1995	Sittler			
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		142	Jansson et al., "Micro Vials on a Silicon Wafer for Sample Introduction in Capillary Electrophoresis," <u>J. Chromatogr.</u> , 626:310-314 (1992)
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	147	5,429,734	07/04/1995	Gajar et al.			
	148	5,486,335	01/23/1996	Wilding et al.			
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	150	5,512,131	04/30/1996	Kumar et al.			
	151	5,512,451	04/30/1996	Kricka			
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		153	Kruger et al., "Durable Gold-Coated Fused Silica Capillaries for Use in Electrospray Mass Spectrometry," <u>Anal. Chem.</u> , 67:385-389 (1995)
		154	Manz et al., "Micromachining of Monocrystalline Silicon and Glass for Chemical Analysis Systems," <u>Trends in Anal. Chem.</u> , 10(5):144-149 (1991)
		155	Manz et al., "Planar Chips Technology for Miniaturization and Integration of Separation Techniques Into Monitoring Systems," <u>J. Chromatogr.</u> , 593:253-258 (1992)
		156	Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring," <u>Advances in Chromatography</u> , pp. 1-66 (1993)
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	160	6,005,245	12/21/1999	Sakairi et al.			
	161	6,060,705	05/09/2000	Whitehouse et al.			
	162	6,114,693	09/05/2000	Hirabayashi et al.			
	163	3,538,744	11//10/1970	Karasek et al.			
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		167	Moore et al., "Microchip Separations of Neutral Species Via Micellar Electrokinetic Capillary Chromatography," <u>Anal. Chem.</u> , 67:4184-4189 (1995)
		168	Nichols et al., "CE-MS for Industrial Applications Using a Liquid Junction With Ion-Spray and CF-FAB Mass Spectrometry," <u>LC-GC</u> , 10(9):676-686 (1992)
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	173	4,007,464	02/08/1977	Bassous et al.			
	174	4,209,696	06/24/1980	Fite			
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		177	Olivares et al., "On-Line Mass Spectrometric Detection for Capillary Zone Electrophoresis," <u>Anal. Chem.</u> , 59:1230-1232 (1987)
		178	Overton et al., "Development of a Temperature Programmed Microchip, High Resolution Gas Chromatograph/Mass Spectrometer for Volatile Organic Compound Analysis," pp. 395-398
		179	Petersen, "Biomedical Applications of MEMS," <u>IEEE</u> , pp. 239-242 (1996)
		180	Raymond et al., "Continuous Sample Pretreatment Using a Free-Flow Electrophoresis Device Integrated Onto a Silicon Chip," <u>Anal. Chem.</u> , 66:2858-2865 (1994)
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	185	6,245,227	06/12/2001	Moon et al.			
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		190	Seiler et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> , 65:1481-1488 (1993)
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		193	Smith et al., "Improved Electrospray Ionization Interface for Capillary Zone Electrophoresis-Mass Spectrometry," <u>Anal. Chem.</u> , 60:1948-1952 (1988)
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	207	4,728,392	03/01/1988	Miura et al.			
	208	5,294,426	03/15/1994	Sekine et al.			
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		216	Angell et al., "Silicon Micromechanical Devices," <u>Scientific American</u> , 248(4):44-55 (1983)
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		225	Peters et al., "Rigid Macroporous Polymer Monoliths," <u>Adv. Mater.</u> , 11(14):1169-1181 (1999)
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EXPRESS MAIL CERTIFICATE

DOCKET NO.: 200701/1230

APPLICANTS: Gary A. Schultz and Thomas N. Corso

TITLE: **INTEGRATED MONOLITHIC MICROFABRICATED
DISPENSING NOZZLE AND LIQUID
CHROMATOGRAPHY-ELECTROSPRAY SYSTEM AND
METHOD**

Certificate is attached to the **Information Disclosure Statement (1 page) and
PTO-1449 Form (19 pages) (in duplicate) with 241 references (not attached)** of the
above-named application.

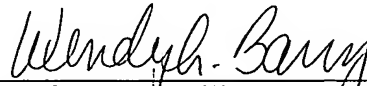
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